

TESEOIII: GPS/Galileo/Glonass/BeiDou QZSS standalone receiver



The new trend in automotive applications

The new Teseo III product family creates a new state-of-the-art in positioning accuracy by building on the industry-leading performance of ST's Teseo II single-chip satellite-tracking ICs. The new generation also leverages the company's investment and support for sensor fusion as found in automotive DRAW and Assisted-GNSS (Global Navigation Satellite System) functions.

KEY FEATURES

- Multiconstellation single chip receiver
- ARM946 microprocessor
- ST-AGPS support
- ST automotive grade
- The world's richest set of interfaces/peripherals like: CAN, I²C, USB, ADC
- Update rate up to 10 Hz
- Antenna sensing
- Teseo DRAW
- AEC-Q100 qualified

KEY BENEFITS

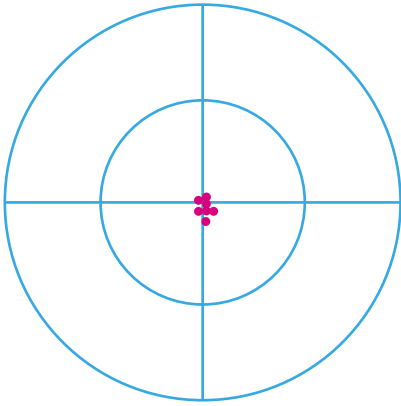
- Accurate position
- 3D fix also in urban canyon condition
- Fast Time To First Fix (TTFF)

TARGETED APPLICATIONS

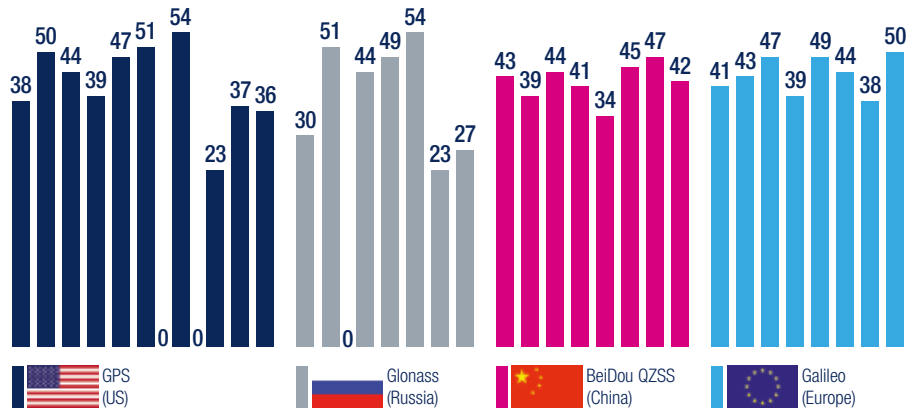
- Emergency calls (eCall and ERA-Glonass)
- In-dash navigation
- Usage-Based Insurance (UBI)
- Anti-theft
- Car to car
- Fleet management
- Road tolling
- Vehicle tracking
- Marine



HIGH POSITIONING ACCURACY LEVEL



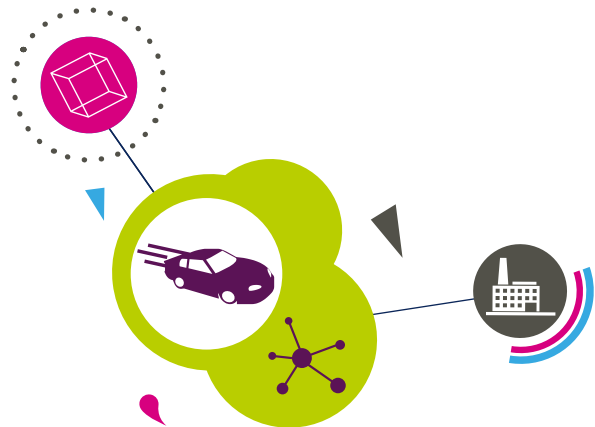
MULTICONSTELLATION CAPABILITY



DEVICE SUMMARY

Part number	Teseo2 Pin to Pin compatible	Package	Memory Management
STA8089FG	Yes	QFN56 7x7mm 0.4mm pitch	Stacked Flash
STA8089GA/GAT	Yes	QFN56 7x7mm 0.4mm pitch	External SQI
STA8090FG		BGA99 6x5mm 0.5mm pitch	Stacked Flash
STA8090GA/GAT*		QFN56 8x8mm 0.5mm pitch wettable flank	External SQI
STA8090EXG/A		BGA169 9x9mm 0.65mm pitch	Ext. Parallel NOR & RAM

Note: * will be released in Q3/2015



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